

COOLPIX P6000 Microscope Adapter

User's Manual

Microscopic documentation with the Nikon CoolPixP6000 and a microscope adapter“NY-P6000.”
Please refer to this manual for installation and camera settings.



Parts

Main Unit

Built-in
Relay lens.



Conversion

Ring

Fits with
eyepiece $\phi 30\text{mm}$.



C-mount

adapter

Connect to
C-mount



Installing adapter

* First, remove lens ring as shown at right.
(Rotate counterclockwise)



* Screw camera into adapter
to install.



★ Installation to microscope on next page

■ $\phi 30\text{mm}$ conversion ring,

Insert adapter all the way down the ring.
It should fit just right.



■ C-mount adapter,

First, screw C-mount adapter into microscope's C-mount.
Second, insert main unit (with $\phi 30\text{mm}$ conversion ring)
into C-mount adapter and secure with screw on the side.



Installing to Microscope



Installing to Eyepiece

Insert adapter to eyepiece tube. (remove eyepiece first).

If tube's inside diameter is $\phi 30\text{mm}$, first install [conversion ring](#) to [main unit](#), then slide it into eyepiece. If tube's inside diameter is $\phi 23.2\text{mm}$, insert main unit directly. * Adapter would start rotate when diopter adjusting ring is attached to

eyepiece. In such case, please insert the adapter after turning diopter adjusting ring to either end.



Nikon F phototube

Insert only [main unit](#) to Nikon F phototube. Recent Nikon trinocular microscopes are usually equipped with V-T phototube or F-phototube. In old model, Optiphot, Biophot, SMZ-2T trinocular are applicable. If microscope is equipped with 35mm camera or Polaroid system, it is usually same as old model. ※SMZ-10 require optional sleeve. ※

Adapter would start to rotate when diopter adjusting ring is attached to eyepiece. In such case, please insert the adapter after turning diopter adjusting ring to either end.



C-mount

C-mount is usually for installing CCD camera which has become trendy nowadays. C-mount has male screw of outer diameter 25.4mm. First, install [C-mount adapter](#) into [microscope's C-mount](#). Second, [insert main unit \(with 30mm conversion ring\)](#) into [C-mount adapter](#) and secure with screw on the side.

*only direct (1.0x) C-mount is compatible. C-mount with lens inside should not be used.



Olympus PT phototube

PT phototube has outer diameter of $\phi 38\text{mm}$ with curving thread at the top. U-SPT, SZ-PT phototubes are these standards.

When 35mm camera or Polaroid system are already installed, it is usually PT phototube. It requires [fixation sleeve \[NY-BH \(option\)\]](#) to secure adapter to microscope



JIS phototube

JIS standard of outer diameter $\phi 25\text{mm}$, and inner diameter $\phi 23.2\text{mm}$. Old models of Olympus microscope usually employed this standard. It requires [fixation sleeve \[NY-JIS \(option\)\]](#) to secure adapter to microscope

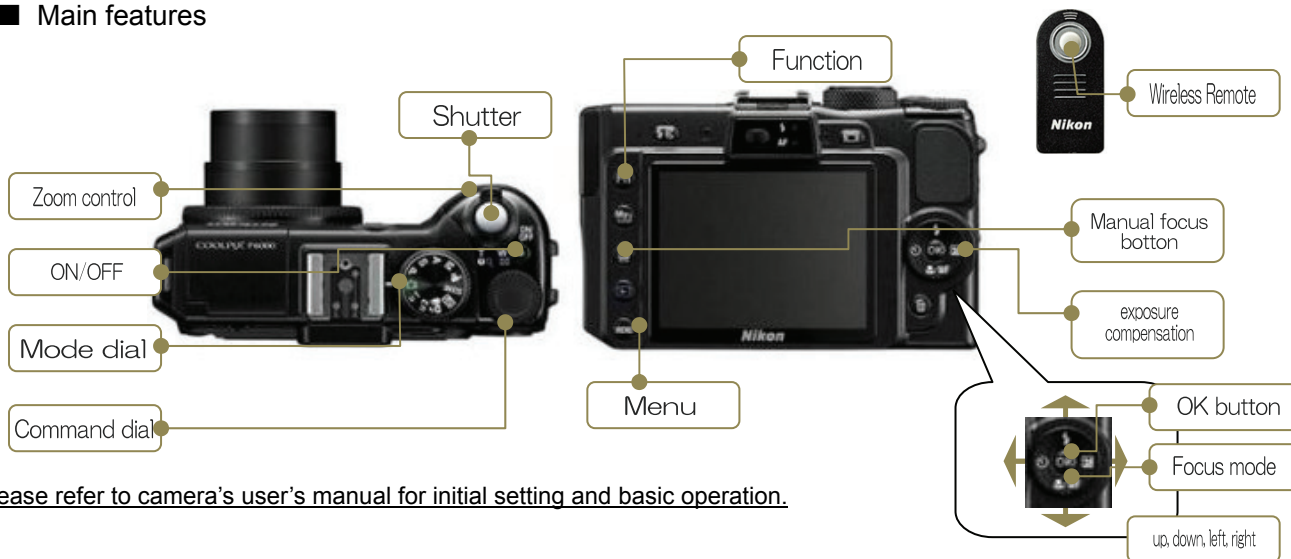
*Able to connect without NY-JIS, however the image may come out blurry.



Camera Setting

• • • Camera setting for capturing quality image.

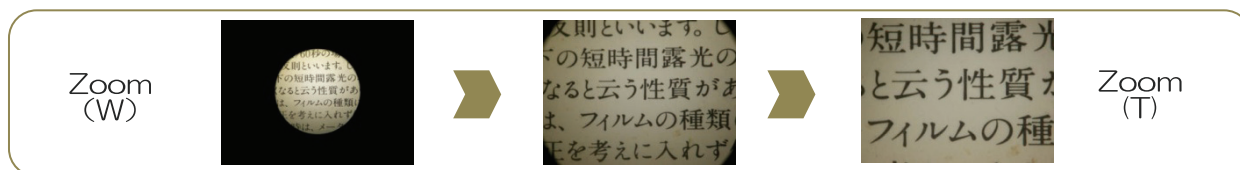
■ Main features



※ Please refer to camera's user's manual for initial setting and basic operation.

○ Easy setting • • • This is easy semi-auto mode.

- Rotate the **MODE DIAL** to **SCENE**.
- Holding down the **FUNCTION BUTTON** and rotate command dial to **LANDSCAPE**, Select and press OK.
- Rotate Zoom control to T(right). Zoom up until there will be no vignette.



- Try focus using focus handle of microscope while watching camera's LCD viewer.

There is difference in focus level between the image captured by microscope eyepiece and the image captured by a digital camera. Please make sure to focus using focus handle of microscope while watching camera's LCD viewer.

- Press shutter release (or remote shutter) to capture the image.
- Press the Play button. The last picture shot will be displayed in full-frame playback mode.
- Press **EXPOSURE COMPENSATION** to alter exposure. Press the multi select or to adjust exposure.

○ Manual Setting • • If you are unsatisfied with quality of image captured by easy setting, please try manual setting.

- Rotate the **MODE DIAL** to **M (manual)**
- Press **FOCUS MODE** to display focus menu. Use the multi selector to choose **[MF]**, and press OK.
- Focus to ∞ (**INFINITE**) while pressing **MF BUTTON** and rotating command dial to the left.

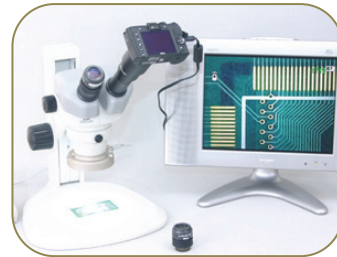


- **Picture Control** • • • Monochrome, Vivid, etc. This is setting for image color. [User's Manual P129](#)
- **Image Size** • • • You can choose the size(pixel count) for the picture recorded. Small image sizes are suitable for pictures that will be distributed by E-mail or used in web pages. Picture shot at large sizes requires more memory and are suitable for printing, but the number of shots that can be taken will be fewer. [User's Manual P126](#)
- **Auto off** • • • If no operations are performed for the selected length of time, the monitor will turn off and the camera will enter standby mode. When AC adapter is connected, 30minute is selected automatically. [User's Manual P126](#)
- **Date Imprint** • • • Date and time of recording can be imprinted on pictures. [User's Manual P165](#)

■ Other thing you can do with Coolpix P6000

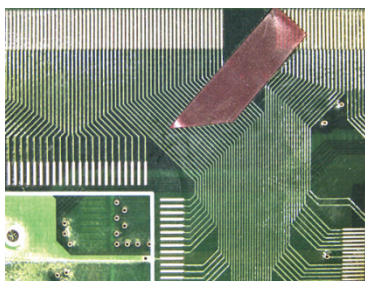
Connect to TV monitor

Using accessory video cable, P6000 can be connected to TV monitor and output real time images. It is easier to focus with large display. Also observation with many people can be possible.

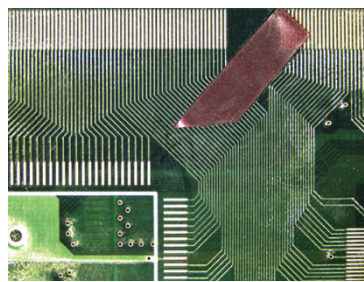


Auto Bracketing

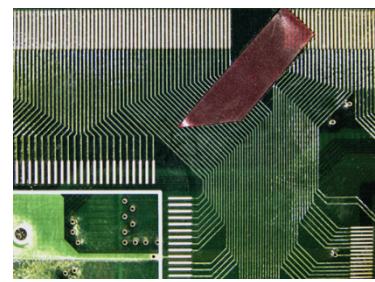
It enables you to capture image with varied exposure in a single shot. Use in situation in which it is difficult to guess the correct exposure.



+0.3



Base Pic



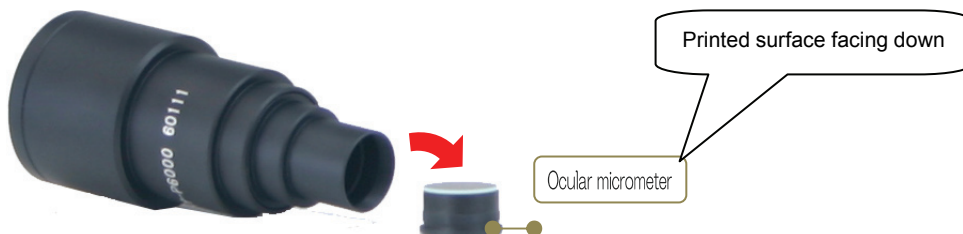
-0.3

Active D-lighting

It reduces over exposure and under exposure.

Installing ocular micrometer (sold separately)

Ocular micrometer of size $\phi 21\text{mm}$ can be installed into NY-P6000. Turn the tip of adapter counter-clockwise to remove bracket for micrometer. Put micrometer on the bracket with printed surface facing down, then reinstall to adapter body.



Micrometer designed for digital camera adapter [S11-CF]

(10mm/100split pitch 0.1mm)

This special micrometer for digital camera adapter omitted the numbers entirely and moved scale to the periphery for clearer view.

